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Form PTO-1449 (REV. 1/06)		US Dept. of Commerce PATENT & TRADEMARK OFFICE	ATTY DOCKET NO. 129219	APPLICATION NO. 10/590,973
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S) Ali LAAYOUN et al.		
(Use several sheets if necessary)		FILING DATE August 28, 2006		

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number	Date	Name
/M.B./	1	US 5,449,767	09/12/1995	Ward et al.
	2	US 5,328,824	07/12/1994	Ward et al.
	3	US 4,507,466	03/26/1985	Tomalia et al.
	4	US 4,568,737	02/04/1986	Tomalia et al.
	5	US 6,083,708	07/04/2000	Singh et al.
	6	US 4,683,195	07/28/1987	Mullis et al
	7	US 4,683,202	07/28/1987	Mullis
	8	US 4,800,159	01/24/1989	Mullis et al.
	9	US 5,399,491	03/21/1995	Kacian et al.
	10	US 6,576,448 B2	06/10/2003	Weissman et al.
	11	US 6,110,426	08/29/2000	Shalon et al.
	12	US 6,083,763	07/04/2000	Balch
	13	US 6,083,762	07/04/2000	Papen et al.
	14	US 5,234,809	08/10/1993	Boom et al.
↓	15	US 4,672,040	06/09/1987	Josephson
/M.B./	16	US 5,750,338	05/12/1998	Collins et al.

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number	Date	Country	With English Abstract	With English Translation

## OTHER DOCUMENTS

Examiner Initials	Cite No.	(Including Author, Title, Date, Pertinent Pages, etc.)

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/M.B./	17	EP 0329.198 A2	08/23/1989	Europe				
	18	EP 0302.175 A2	02/08/1989	Europe				
	19	EP 0097.373 A2	01/04/1984	Europe				
	20	EP 0063.879 A2	11/03/1982	Europe				
	21	EP 0567.841 A2	11/03/1993	Europe	X			
	22	EP 0286.898 A2	10/19/1988	Europe				
	23	EP 0561.722 A1	09/22/1993	Europe	X			
	24	EP 0669.991 B1	09/06/1995	Europe	X			
	25	EP 0827.552 B1	03/11/1998	Europe	X			
	26	EP 0350.407 B1	01/10/1990	Europe	X			
	27	EP 0569.272 B1	11/10/1993	Europe	X			
	28	DE 3.910.151 A1	10/04/1990	Germany	X			
	29	FR 2 607 507	06/03/1988	France	X			
	30	WO 93/16094 A2	08/19/1993	WIPO				
	31	WO 99/35500 A1	07/15/1999	WIPO	X			
	32	WO 99/65926 A1	12/23/1999	WIPO	X			
↓	33	WO 02/090319 A1	11/14/2002	WIPO	X			
	34	WO 02/090584 A2	11/14/2002	WIPO	X			
/M.B./	35	WO 01/92361 A1	12/06/2001	WIPO	X			
<b>OTHER DOCUMENTS</b>								
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/M.B./	36	WO 00/40590 A2	07/13/2000	WIPO	X	
	37	WO 98/05766 A1	02/12/1998	WIPO	X	
	38	WO 00/07982 A1	02/17/2000	WIPO	X	
	39	WO 01/92361 A1	12/06/2001	WIPO	X	
	40	WO 95/08000 A2	03/23/1995	WIPO	X	
	41	WO 01/44506 A1	06/21/2001	WIPO		
	42	WO 90/01069 A1	02/08/1990	WIPO		
	43	WO 90/06995 A1	06/28/1990	WIPO		
	44	WO 91/02818 A1	03/07/1991	WIPO		
	45	WO 00/60049 A1	10/12/2000	WIPO	X	
	46	WO 00/05338 A1	02/03/2000	WIPO	X	
	47	WO 99/53304 A1	10/21/1990	WIPO	X	
	48	WO 99/15621 A1	04/01/1999	WIPO	X	
	49	WO 97/45202 A1	12/04/1997	WIPO	X	
/M.B./	50	WO 88/04289 A1	06/16/1988	WIPO		
OTHER DOCUMENTS						
Examiner Initials	Cite No.	(Including Author, Title, Date, Pertinent Pages, etc.)				
/M.B./	51	T.W. Greene et al., Protective Groups in Organic Synthesis, 3 <sup>rd</sup> Edition, John Wiley and Sons, Inc., New York (1991), pp. 230-245.				
/M.B./	52	S. Hunt, "The Non-Protein Amino Acids," Chemistry and Biochemistry of the Amino Acids, edited by G.C. Barrett, Chapman and Hall, London (1985), pp. 55-138.				
EXAMINER					DATE CONSIDERED	
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Examiner Initials	Cite No.	(Including Author, Title, Date, Pertinent Pages, etc.)				
/M.B./	53	M. O'Donnell et al., "Reporter Groups for the Analysis of Nucleic Acid Structure," Bioorganic Chemistry: Nucleic Acids, Oxford University Press (1996), pp. 216-243.				
	54	J. Randolph et al., "Stability, Specificity and Fluorescence Brightness of Multiply-labeled Fluorescent DNA Probes," Nucleic Acids Research (1997), Vol. 25, No. 14, pp. 2923-2929.				
	55	T. Livache et al., "Preparation of a DNA Matrix Via an Electrochemically Directed Copolymerization of Pyrrole and Oligonucleotides Bearing a Pyrrole Group," Nucleic Acids Research (1994), Vol. 22, No. 15, 2915-2921.				
	56	J. Cheng et al., "Preparation and Hybridization Analysis of DNA/RNA from E. coli on Microfabricated Bioelectronic Chips," Nature Biotechnology, Volume 16 (1998), pp. 541-546.				
	57	T. Okamoto et al., "Microarray Fabrication with Covalent Attachment of DNA Using Bubble Jet Technology," Nature Biotechnology, Vol. 18 (2000), pp. 438-441.				
	58	G. Ramsay, "DNA Chips: State-of-the Art," Nature Biotechnology, Vol. 16 (1998), pp. 40-44.				
	59	J. Cheng et al., "Microchip-based Devices for Molecular Diagnosis of Genetic Diseases," Molecular Diagnosis, Vol. 1, No. 3 (1996), pp. 183-200.				
	60	T. Holton et al., "Advantageous Syntheses of Diazo Compounds by Oxidation of Hydrazones with Lead Tetraacetate in Basic Environments," J. Org. Chem. (1995), Vol. 60, pp. 4725-4729.				
/M.B./	61	A. Laayoun et al., "Aryldiazomethanes for Universal Labeling of Nucleic Acids and Analysis on DNA Chips," Bioconjugate Chem. (2003), Vol. 14, pp. 1298-1306.				
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Examiner Initials	Cite No.	(Including Author, Title, Date, Pertinent Pages, etc.)						
/M.B./	62	M. Shiga et al., "Synthesis of a Novel Biotin Derivative That Bears a Diazo Group as the Reactive Site," Analytical Sciences (1993), Vol. 9, pp. 553-556.						
	63	M. Shiga et al., "Fluorescence Detection of DNA Using a Novel Peroxidase Substrate, 4-(4-Hydroxyphenylcarbamoyl)butanoic Acid," Analytical Sciences (1995), Vol. 11, pp. 591-595.						
	64	P. Langer et al., "Enzymatic Synthesis of Biotin-labeled Polynucleotides: Novel Nucleic Acid Affinity Probes," Proc. Natl. Acad. Sci. USA, Vol. 78, No. 11 (1981), pp. 6633-6637.						
	65	E. Bayer et al., "The Use of the Avidin-Biotin Complex as a Tool in Molecular Biology," Methods of Biochemical Analysis, Vol. 26 (1980), pp. 1-45.						
	66	G. Pratviel et al., "Carbon-Hydrogen Bonds of DNA Sugar Units as Targets for Chemical Nucleases and Drugs," Angew. Chem. Int. Ed. Engl., Vol. 34 (1995), pp. 746-769.						
	67	D. Sigman et al., "Chemical Nucleases," Chem. Rev., Vol. 93 (1993), pp. 2295-2316.						
	68	"2 Methods for the Preparation of Alkane, Alkene, and Alkyne Diazo Compounds," pp. 34-48. (1995) .						
	69	B. Charleux et al., "Radical-initiated Copolymers of Styrene and p-Formylstyrene, 1 Solution Copolymerization and Characterization," Makromol. Chem., Vol. 193 (1992), pp. 187-203.						
/M.B./	70	M. Egholm et al., "Peptide Nucleic Acids (PNA) Oligonucleotide Analogues with an Achiral Peptide Backbone," J. Am. Chem. Soc., Vol. 114 (1992), pp. 1895-1897.						
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Examiner Initials	Cite No.	(Including Author, Title, Date, Pertinent Pages, etc.)		
/M.B./	71	W. Jencks et al., "Reactivity of Nucleophilic Reagents toward Esters," J. Amer. Chem Soc., Vol. 82 (1960), pp. 1778-1786.		
	72	G. Pratviel et al., "DNA and RNA Cleavage by Metal Complexes," Adv. Org. Chem., Vol. 45 (1998), pp. 251-312.		
	73	F. Ginot, "Oligonucleotide Micro-Arrays for Identification of Unknown Mutations: How Far from Reality?," Human Mutation, Vol. 10 (1997), pp. 1-10.		
	74	X. Creary, "Tosylhydrazone Salt Pyrolyses: Phenyliazomethanes," Organic Synthesis, Coll., Vol. 7 (1990), pp. 438-443.		
	75	M. Oivanen et al., "Kinetics and Mechanisms for the Cleavage and Isomerization of the Phosphodiester Bonds of RNA by Bronsted Acids and Bases," Chem. Rev., Vol. 98 (1998), pp. 961-990.		
↓	76	S. Agrawal, "Protocols for Oligonucleotides and Analogs, Synthesis and Properties," Methods in Molecular Biology, Vol. 20, Humana Press, New Jersey. (1993) .		
/M.B./	77	S. Wong, "Chemistry of Protein Conjugation and Cross-Linking," CRC Press (1991) pp. 16-45.		
EXAMINER	/Michael Barker/			DATE CONSIDERED 01/07/2010
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